

**The Primary Stage of Grades (4-5)
School Year 2022 - 2023**

Name: _____

Subject: Study sheet 1

Photosynthesis and respiration

Date: / /

Class: Grade Five National (All Sections)

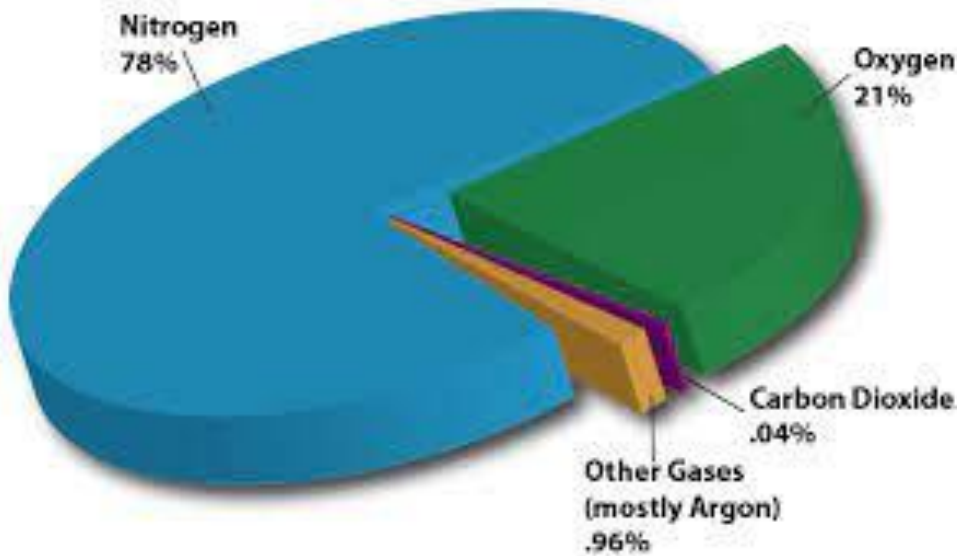
Objective/s

- Describe the processes of photosynthesis and respiration.
- Describe the Oxygen Cycle in Nature.

Composition of Air:

Air: is the invisible mixture of gases that surrounds Earth.

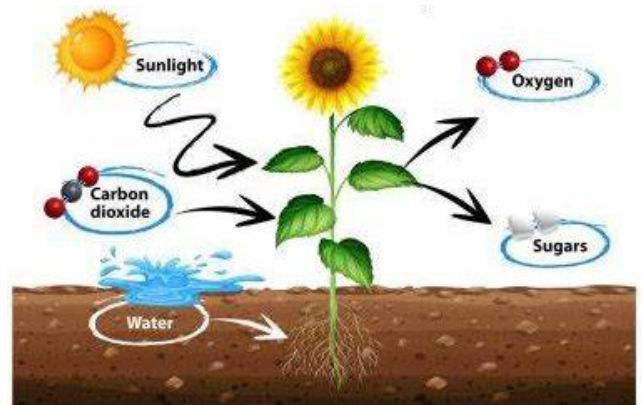
It is composed of: 78% Nitrogen, 21% Oxygen, and 1% of Carbon dioxide, water vapor, other gases.



Photosynthesis Process:

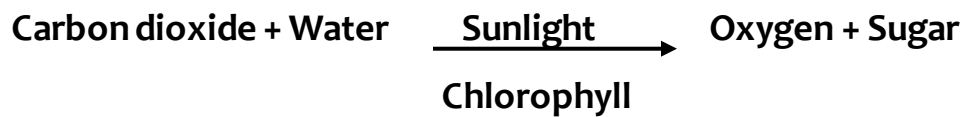
is the process at which plants make their own food.

During daylight, green plants use their chloroplasts which contain chlorophyll to trap sunlight.



The energy from the sun is used to combine water and carbon dioxide from the air to produce sugar and oxygen.

Photosynthesis equation:

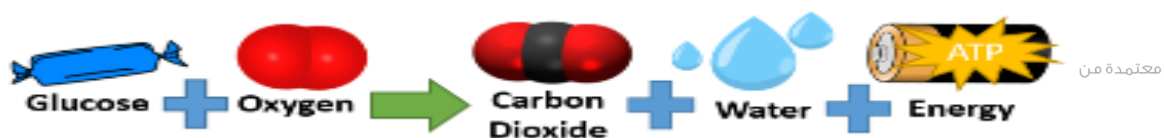


Respiration Process:

It is the process at which a living organism releases energy from the food by using Oxygen.

Plants store sugar (food), when the sugar is needed the cells use oxygen to break down the sugar and release energy.

Respiration equation:



The Oxygen Cycle in Nature:

- 1- Plants are at the start of the oxygen cycle, in the process of photosynthesis plants take in Carbon dioxide and give out Oxygen.
- 2- Animals and humans breathe in Oxygen and give out Carbon dioxide.

